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Signature: 

(Ginny Blundell)

Docket No.: CIBT-P01-058
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Lu et al.

Application No.: 09/499526

Confirmation No.: 1398

Filed: February 10, 2000

Art Unit: 1647

For: METHODS AND REAGENTS FOR
TREATING GLUCOSE METABOLIC
DISORDERS

Examiner: R. M. Deberry

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

A copy of each reference on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information

as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 18-1945 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. CIBT-P01-058. A duplicate copy of this paper is enclosed.

Dated: *Dec. 30, 2004*

Respectfully submitted,

By  _____

Melissa S. Rones, Ph.D.

Registration No.: 54,408

ROPES & GRAY LLP

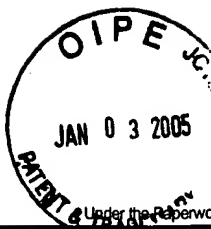
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Attorneys/Agents For Applicant



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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/499526
				Filing Date	February 10, 2000
				First Named Inventor	Kuanghui Lu
				Art Unit	1647
				Examiner Name	R. M. Deberry
Sheet	1	of	4	Attorney Docket Number	CIBT-P01-058

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	2002/0094346-A1	07-18-2002		
	AB	4,839,343	06-13-1989		
	AC	4,891,357	01-02-1990		
	AD	5,604,203	02-18-1997		
	AE	5,696,093	12-09-1997		
	AF	5,912,227	06-15-1999		
	AG	5,939,462	08-17-1999		
	AH	5,968,819	10-19-1999		
	AI	6,013,622	01-11-2000		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA	EP-0 992 239-B1	03-12-2003			
	BB	WO-00/47219-A2	08-17-2000			
	BC	WO-00/68197-A1	11-16-2000			
	BD	WO-01/62737-A2	08-30-2001			
	BE	WO-01/76631-A2	10-18-2001			
	BF	WO-2003/026591-A2	04-03-2003			
	BG	WO-99/15516-A1	04-01-1999			

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CA	Adrian, T.E., et al., "Human Distribution and Release of a Putative New Gut Hormone, Peptide YY," <i>Gastroenterology</i> , 89:1070-7 (1985).		
	CB	Allen, J.M., et al., "Effects of Peptide YY and Neuropeptide Y on Gastric Emptying in Man," <i>Digestion</i> , 30:255-262 (1984).		
	CC	Asakawa, A., et al., "Mouse pancreatic polypeptide modulates food intake, while not influencing anxiety in mice," <i>Peptides</i> , 20:1445-1448 (1999).		
	CD	Balasubramaniam, A., et al., "Structure-Activity Studies Including a ψ (CH ₂ -NH) Scan of Peptide YY (PYY) Active Site, PYY(22-36), for Interaction with Rat Intestinal PYY Receptors: Development of Analogues with Potent in Vivo Activity in the Intestine," <i>J. Med. Chem.</i> , 43:3420-3427 (2000).		
	CE	Batterham, R.L., et al., "Gut hormone PYY3-36 physiologically inhibits food intake," <i>Nature</i> , 418:650-654 (2002).		
	CF	Batterham, R.L., et al., "Inhibition of Food Intake in Obese Subjects by Peptide YY3-36," <i>N Engl J Med</i> , 349(10):941-948 (2003).		

Examiner Signature	Date Considered
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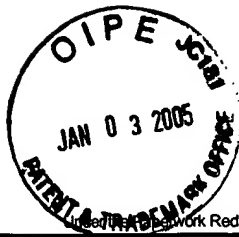


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Substitute for form 1449A/B/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Application Number	09/499526
			Filing Date	February 10, 2000
			First Named Inventor	Kuanghui Lu
			Art Unit	1647
			Examiner Name	R. M. Deberry
			Attorney Docket Number	CIBT-P01-058
Sheet	2	of	4	

CG	Bonaz, B., et al., "Peripheral peptide YY induces c-fos-like immunoreactivity in the rat brain," Neuroscience Letters, 163:77-80 (1993).
CH	Brown, K.K., et al., "A Novel N-Aryl Tyrosine Activator of Peroxisome Proliferator-Activated Receptor- γ Reverses the Diabetic Phenotype of the Zucker Diabetic Fatty Rat," Diabetes, 48:1415-1424 (1999).
CI	Campfield, L.A., et al., "Recombinant Mouse OB Protein: Evidence for a Peripheral Signal Linking Adiposity and Central Neural Networks," Science, 269(5223):546-549 (1995).
CJ	Chen, C.H. and Rogers, R.C., "Central inhibitory action of peptide YY on gastric motility in rats," Am. J. Physiol., 269:R787-R792 (1995).
CK	Chen, C.H., et al., "Intracisternal injection of peptide YY inhibits gastric emptying in rats," Regulatory Peptides, 61:95-98 (1996).
CL	Clark, J.T., et al., "Neuropeptide Y (NPY)-induced feeding behavior in female rats: comparison with human NPY ([Met ¹⁷]NPY), NPY analog ([¹ Leu ⁴]NPY) and peptide YY," Regulatory Peptides, 17:31-39 (1987).
CM	Clark, J.T., et al., "Neuropeptide Y and Human Pancreatic Polypeptide Stimulate Feeding Behavior in Rats," Endocrinology, 115(1):427-429 (1984).
CN	Corp, E. S., et al., "Effect of fourth ventricular neuropeptide Y and peptide YY on ingestive and other behaviors", The American Physiological Society, 317-323 (1990)
CO	Deng, X., et al., "PYY Potently Inhibits Pancreatic Exocrine Secretion Mediated Through CCK-Secretin-Stimulated Pathways but Not 2-DG-Stimulated Pathways in Awake Rats," Digestive Diseases and Sciences, 46(1):156-165 (2001).
CP	Eberlein, G. A., et al, "A New Molecular Form of PYY: Structural Characterization of Human PYY (3-36) and PYY (1-36)", Peptides, 10: 797-803 (1989)
CQ	Garlicki, J., et al., "Cholecystokinin receptors and vagal nerves in control of food intake in rats," Am. J. Physiol., 258:E40-E45 (1990).
CR	Gedulin, B.R., et al., "Assessment of Gastric Emptying from Appearance in Plasma of 3H from Gavaged [3-3H] Glucose in Conscious Rats: Effects of Amylin," Gastroenterological, Abstract, Vol. 108, No. 4 (April 1995).
CS	Gomez, G., et al., "Intestinal peptide YY: ontogeny of gene expression in rat bowel and trophic actions on rat and mouse bowel," Am. J. Physiol., 268:G71-G81 (1995).
CT	Greeley, G.H., et al., "Inhibition of Gastric Acid Secretion by Peptide YY is Independent of Gastric Somatostatin Release in the Rat (42814)," Proceedings of the Society for Experimental Biology and Medicine, 189:325-328 (1988).
CU	Grouzmann, E., et al, "Expression and Regulation of Neuropeptide Y in a Rat Insulinoma Cell Line", Endocrinology, Abstract 519B (1993)
CV	Guan, et al., "Peptide-YY, a New Partner in the Negative Feedback Control of Pancreatic Secretion," Endocrinology, 128(2):911-916 (1991).
CW	Gue, M., et al., "Reversal by NPY, PYY and 3-36 molecular forms of NPY and PYY of intracisternal CRF-induced inhibition of gastric acid secretion in rats," British Journal of Pharmacology, 118:237-242 (1996).
CX	Hagan, M.M. and Moss, D.E., "Effect of Naloxone and Antidepressants on Hyperphagia Produced by Peptide YY," Pharmacology Biochemistry and Behavior, 45:941-944 (1993).
CY	Halaas, J.L., et al., "Weight-Reducing Effects of the Plasma Protein Encoded by the Obese Gene," Science, 269(5223):543-546 (1995).
CZ	Haynes, J.M., et al., "Neuropeptide Y (NPY) and peptide YY (PYY) effects in the epididymis of the guinea-pig: evidence of a pre-junctional PYY-selective receptor," British Journal of Pharmacology, 122:1530-1536 (1997).
CA1	Hoentjen, F., et al., "Role of Circulating Peptide YY in the Inhibition of Gastric Acid Secretion by Dietary Fat in Humans," Scand J Gastroenterol, 35:166-171 (2000).
CB1	Iyengar, S., et al., "Characterization of Neuropeptide Y-Induced Feeding in Mice: Do Y1-Y6 Receptor Subtypes Mediate Feeding?," JPET, 289(2):1031-1040 (1999).

Examiner Signature		Date Considered	
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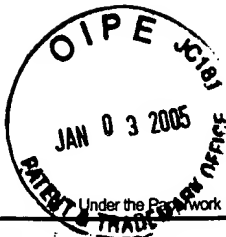


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				Application Number	09/499526
				Filing Date	February 10, 2000
				First Named Inventor	Kuanghui Lu
				Art Unit	1647
				Examiner Name	R. M. Deberry
Sheet	3	of	4	Attorney Docket Number	CIBT-P01-058

CC1	Kanatani, A., et al., "Role of the Y1 Receptor in the Regulation of Neuropeptide Y-Mediated Feeding: Comparison of Wild-Type, Y1 Receptor-Deficient, and Y5 Receptor-Deficient Mice," <i>Endocrinology</i> , 141(3):1011-1016 (2000).
CD1	Kato, K., et al., "CGRP Antagonists Enhance Gastric Acid Secretion in 2-h Pylorus-Ligated Rats," <i>Peptides</i> , 16(7):1257-1262 (1995).
CE1	Kawakubo, K., et al., "Intracisternal PYY inhibits gastric lesions induced by ethanol in rats: role of PYY-preferring receptors?," <i>Brain Research</i> , 854:30-34 (2000).
CF1	Kimmel, J.R., et al., "Isolation and Characterization of Chicken Insulin," <i>Endocrinology</i> , 83:1323-1330 (1968).
CG1	Kopelman, P.G., "Obesity as a medical problem," <i>Nature</i> , 404:635-643 (2000).
CH1	Kushi, A., et al., "Obesity and mild hyperinsulinemia found in neuropeptide Y-Y1 receptor-deficient mice," <i>Proc. Natl. Acad. Sci. USA</i> , 95:15659-15664 (1998).
CI1	Lloyd, K.C.K., et al., "Inhibitory effect of PYY on vagally stimulated acid secretion is mediated predominantly by Y1 receptors," <i>Am. J. Physiol.</i> , 270:G123-G127 (1996).
CJ1	Malaisse-Lagae, F., et al., "Pancreatic polypeptide: A possible role in the regulation of food intake in the mouse," <i>Experientia</i> 33, 915-917 (1977).
CK1	Marsh, D.J., et al., "Role of the Y5 neuropeptide Y receptor in feeding and obesity," <i>Nature Medicine</i> , 4(6):718-721 (1998).
CL1	Michel, M.C., et al., "XVI. International Union of Pharmacology Recommendations for the Nomenclature of Neuropeptide Y, Peptide YY, and Pancreatic Polypeptide Receptors," <i>Pharmacological Reviews</i> , 50(1):143-150 (1998).
CM1	Morley, J.E., et al., "Modulation of food intake by peripherally administered amylin," <i>Am. J. Physiol.</i> , 267:R178-R184 (1994).
CN1	Morley, J.E., et al., "Peptide YY (PYY), a potent orexigenic agent," <i>Brain Research</i> , 341:200-203 (1985).
CO1	Munson, P.J. and Rodbard, D., "LIGAND: A Versatile Computerized Approach for Characterization of Ligan-Binding Systems," <i>Analytical Biochemistry</i> , 107:220-239 (1980).
CP1	Nakajima, M., et al., "Effects of Pancreatic Polypeptide Family Peptides on Feeding and Learning Behavior in Mice," <i>The Journal of Pharmacology and Experimental Therapeutics</i> , 268(2):1010-1014 (1994).
CQ1	Naslund, E., et al., "Energy intake and appetite are suppressed by glucagon-like peptide-1 (GLP-1) in obese men," <i>International Journal of Obesity</i> , 23:304-311 (1999).
CR1	Okada, S., et al., "Peripherally Not Centrally Administered Peptide YY (PYY) Decreases High Fat Diet Intake," <i>Endocrinology</i> , Abstract 520B (1993).
CS1	Pappas, T.N., et al., "Peptide YY Release by Fatty Acids is Sufficient to Inhibit Gastric Emptying in Dogs," <i>Gastroenterology</i> , 91:1386-9 (1986).
CT1	Pelleymounter, M.A., et al., "Effects of the Obese Gene Product on Body Weight Regulation in Ob-Ob Mice," <i>Science</i> , 269(5223):540-543 (1995).
CU1	Rissanen, A., et al., "Risk of disability and mortality due to overweight in a Finnish population," <i>Br Med J</i> , 301:835-837 (1990).
CV1	Savage, A.P., et al., "Effects of peptide YY (PYY) on mouth to caecum intestinal transit time and on the rate of gastric emptying in healthy volunteers," <i>Gut</i> , 28:166-170 (1987).
CW1	Scatchard, G., "The Attractions of Proteins For Small Molecules and Ions", <i>Annals New York Academy of Sciences</i> , pp. 660-672.
CX1	Schwartz, M.W., et al., "Central nervous system control of food intake," <i>Nature</i> , 404:661-671 (2000).
CY1	Stanley, B.G., et al., "Paraventricular Nucleus Injections of Peptide YY and Neuropeptide Y Preferentially Enhance Carbohydrate Ingestion," <i>Peptides</i> , 6:1205-1211 (1985).
CZ1	Surwit, R.S., et al., "Differential Effects of Fat and Sucrose on the Development of Obesity and Diabetes in C57BL/6J and A/J Mice," <i>Metabolism</i> , 44(5):645-651 (1995).
CA2	Taniguchi, H., et al., "Pharmacological profile of T-0632, a novel potent and selective CCK(a)

Examiner Signature		Date Considered	
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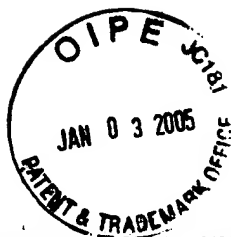
Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	09/499526
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	February 10, 2000
				First Named Inventor	Kuanghui Lu
				Art Unit	1647
				Examiner Name	R. M. Deberry
				Attorney Docket Number	CIBT-P01-058
Sheet	4	of	4		

		receptor antagonist, in vivo," European Journal of Pharmacology, 312:227-233 (1996).	
CB2		Tatemoto, K., "Neuropeptide Y: Complete Amino Acid Sequence of the Brain Peptide," Proc. Natl. Acad. Sci. USA, 79:5485-5489 (1982).	
CC2		Tatemoto, K., et al., "Neuropeptide Y-a novel brain peptide with structural similarities to peptide YY and pancreatic polypeptide," Nature, 296:659-660 (1982).	
CD2		Ueno, N., et al., "Decreased Food Intake and Body Weight in Pancreatic Polypeptide-Overexpressing Mice," Gastroenterology, 117:1427-1432 (1999).	
CE2		Verchere, C. B., et al., "Major Species Variation in the Expression of Galanin mRNA in Mammalian Celiac Ganglion", Endocrinology, Abstract 517B (1993)	
CF2		Wang, Z. L., et al., "Co-Release of Neuropeptide Y With Insulin Following Dexamethasone", Endocrinology, Abstract 518B (1993)	
CG2		Widdowson, P. S., et al., "Distribution of [Leu31,Pro34]NPY-sensitive, BIBP3226-insensitive [125I]PYY(3-36) binding sites in rat brain: possible relationship to Y5 NPY receptors," Brain Research, 778:242-250 (1997).	
CH2		Wiley, J.W., et al., "Mechanism of Action of Peptide YY to Inhibit Gastric Motility," Gastroenterology, 100:865-872 (1991).	
CI2		Yang, H. and Tache, Y., "PYY in brain stem nuclei induces vagal stimulation of gastric acid secretion in rats," Am. J. Physiol., 268:G943-G948 (1995).	
CJ2		Yang, H., et al., "PYY-preferring receptor in the dorsal vagal complex and its involvement in PYY stimulation of gastric acid secretion in rats," British Journal of Pharmacology, 123:1549-1554 (1998).	
CK2		Yoshinaga, K., et al., "Structural requirements of peptide YY for biological activity at enteric sites," Am. J. Physiol., 263:G695-G701 (1992).	
CL2		Young, AA, et al., "Genetically Obese (OB/OB) Mice Are More Sensitive To Amylin and Endotoxin Induced Suppression of Food Intake", Amylin Pharmaceuticals Inc., Program & Abstracts, Vol. 1: June 12 & 13 (1996).	
CM2		Zai, H., et al., "Effect of peptide YY on gastric motor and secretory activity in vagally innervated and denervated corpus pouch dogs," Regulatory Peptides, 61:181-188 (1996).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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Application No. (if known): 09/499526

Attorney Docket No.: CIBT-P01-058

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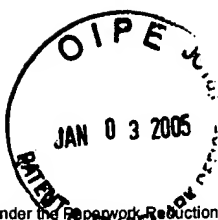
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Supplemental Information Disclosure Statement (4 pages)
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FEE TRANSMITTAL For FY 2005		Complete if Known	
Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).		Application Number	09/499526
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	February 10, 2000
		First Named Inventor	Kuanghui Lu
		Examiner Name	R. M. Deberry
		Art Unit	1647
TOTAL AMOUNT OF PAYMENT (\$)		180.00	Attorney Docket No. CIBT-P01-058

METHOD OF PAYMENT (check all that apply)	
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FEE CALCULATION							
1. BASIC FILING, SEARCH, AND EXAMINATION FEES							
	FILING FEES		SEARCH FEES		EXAMINATION FEES		
		Small Entity		Small Entity		Small Entity	
Application Type	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fees Paid (\$)
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
2. EXCESS CLAIM FEES							
						Small Entity	
						Fee (\$)	Fee (\$)
Fee Description							
Each claim over 20 (including Reissues)						50	25
Each independent claim over 3 (including Reissues)						200	100
Multiple dependent claims						360	180
Total Claims		Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims		
_____		_____	_____	_____	Fee (\$)		Fee Paid (\$)
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Indep. Claims		Extra Claims	Fee (\$)	Fee Paid (\$)			
_____		_____	_____	_____			
_____		_____	_____	_____			
3. APPLICATION SIZE FEE							
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
Total Sheets		Extra Sheets	Number of each additional 50 or fraction thereof		Fee (\$)	Fee Paid (\$)	
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_____ - 100 = _____		/50	_____ (round up to a whole number) x _____		_____	_____	
4. OTHER FEE(S)							
						Fees Paid (\$)	
Non-English Specification, \$130 fee (no small entity discount)							
Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement						180.00	

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent)	54,408
Name (Print/Type)	Melissa S. Rones, Ph.D.	Telephone	(617) 951-7653
		Date	Dec. 30, 2004

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